

AQUACULTURE AND HYDROPOONICS: 1968-1978

**BIBLIOGRAPHIES AND
LITERATURE OF AGRICULTURE,
BLA-2, MAY 1979**

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Aquaculture and Hydroponics: 1968-1978

Compiled by
Charles N. Bebee
Automated Retrieval Section
National Agricultural Library

Bibliographies and Literature
of Agriculture, BLA-2, May 1979

U.S. Department of Agriculture
Science and Education Administration
Technical Information Systems
Beltsville, Maryland 20705

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PREFACE

Citations for this bibliography were pulled from the AGRICOLA citation database online. They represent:

- Articles, monographs, and series, regardless of language, indexed at the National Agricultural Library since the publication of the January 1970 issues of the Bibliography of Agriculture and the National Agricultural Library Catalog.
- Literature received more than one year after publication is generally not indexed; exceptions are made for important scientific publications.

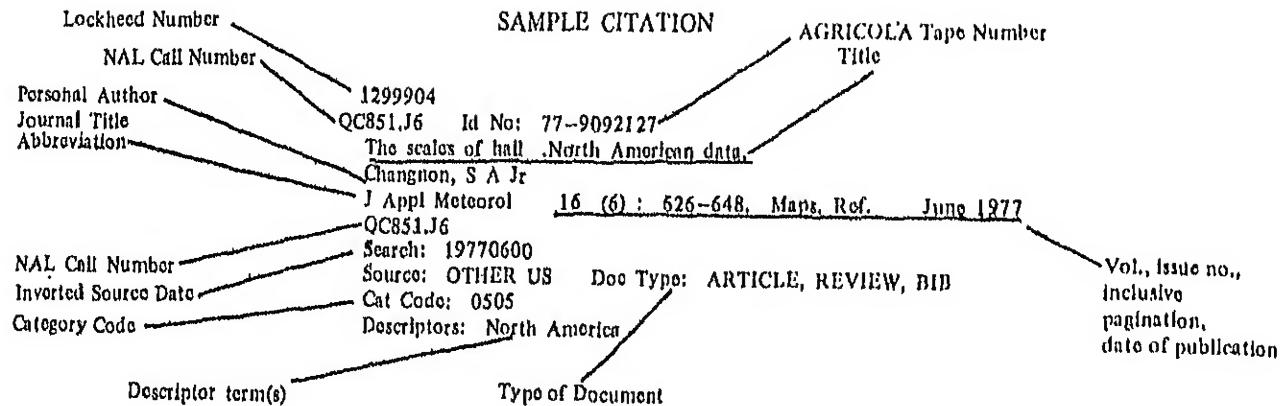
Some duplication of citations occurs because the system requires separate entries for each of the separate files which are incorporated into AGRICOLA. The compiler has attempted purging of known duplicate entries.

The bibliography is a broad subject arrangement by categories as used in The Bibliography of Agriculture; subarrangement is alphabetical by author. A personal author index is included.

User comments and suggestions are welcomed and should be forwarded to the compiler, Charles N. Bebee.

Citations listed on pages 58 - 65 are items from old category codes 1970-1971. These cannot be sorted online and are, therefore, arranged in single alphabetical order.

Richard A. Farley
Deputy Director
Technical Information Systems
Science and Education Administration
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10	279	9/MAJ
11	353	1+4
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14	9	WATER (W)CULTURES
15	8	HYDROCULTURE?
16	467	1+4+7+8+13+14+15
17	233	16/MAJ
18	234	16/MIN
19	2	SOIL (W)LESS
20	468	16+19
21	22495	CC-55?
22	16276	CC=6020
23	20144	CC=6505
24	3443	OC=85
25	5497	OC=30
26	67250	21-25/+
27	50	20<26
28	418	20-27
29	197	28/MAJ
30	0	BEBEE/MORAN

Print 20/2/1-468
 Search Time: 0.389 Prints: 468 Descs.: 20

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

GENERAL AGRICULTURE

1315940 Id No: 77-9910971
 77.910971 Id No: 77-9910971
 Aquaculture economics research needs; report from a workshop
 to identify aquaculture economics research needs, Atlanta.
 Georgia -- April 23, 1976

Buck, D H
Fisheries 2 (6): 11-12, 14-16. Nov/Dec 1977

SH1.F54 Search: 19771200
 Source: OTHER US Doc Type: ARTICLE
 Cat Code: G505

1358666 Id No: 78-9007852
The integration of aquaculture with agriculture

Buck, D H
Fisheries 2 (6): 11-12, 14-16. Nov/Dec 1977

SH1.F54 Search: 19771200
 Source: OTHER US Doc Type: ARTICLE
 Cat Code: G505

691847 80 R3212 Id No: 73-9149678
*L'aquiculture, technique d'avenir: Hydroponics, crop culture
 of the future*

Cesar, G
Rev Hort Suisse 45 (5): 41-42. Feb 1973

80 P3212 Language: FRE
 Search: 1973C200
 Doc Type: ARTICLE
 Cat Code: 0505

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*L'ultime réserve de l'humanité? Les fermes marines: Maritime
 farms, the ultimate reserve of humanity? -Aquaculture.*

Haiderkorn, J P
Inf Agric (Paris) 461: 34-36. Sept 1975

HD1945.A115 Language: FRE
 Search: 19750900
 Doc Type: ARTICLE
 Cat Code: 0505

1051876 HD1945.415 Id No: 75-9121107
*L'ultime réserve de l'humanité? Les fermes marines: Maritime
 farms, the ultimate reserve of humanity? -Aquaculture.*

Haiderkorn, J P
Inf Agric (Paris) 461: 34-36. Sept 1975

HD1945.A115 Language: FRE
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 Doc Type: ARTICLE
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1315940 Id No: 77-9053494
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*Tehnicka i ekonomistska procena razlicitih nacija uzgoja riba u
 ribnjacima. 2: Technical and economic estimate of different
 types of aquaculture in fish ponds - Farm management.*

Apostolski, K M; Arsovski, B S
Ekon Poljopr 23 (5): 37-50. Eng. sum. May 1976

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 Search: 19760500
 Doc Type: ARTICLE
 Cat Code: 1010
 Descriptors: Yugoslavia

13300577 72.8 K522 Id No: 77-9117359
*Cost accounting in exploitative aquicultural economies
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Pinkhasov, M; Polinov, S
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789136 389.9 S01B Id No: 73-9227559
*L'aquaculture: Source nouvelle de protéines alimentaires;
 Aquaculture: A new source of food proteins*

Rouzaud, P
Bull Soc Sci Hyg Aliment 61 (1): 18-31. 1973

389.9 S01B Language: FRE
 Search: 19730000
 Doc Type: ARTICLE

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 Economic comparisons of singled cropped and multiple cropped
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 Crawford, K W
 Alabama, Agricultural Experiment Station
 Highlights Agric Res 23(3): 6 - Fall 1976
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 Search: 19760000 Doc Type: ARTICLE Location: AGE
 Source: EXP STN Cat Code: 1015
 Descriptors: Cost And Returns; Aquaculture; Alabama

1222349 Id No: 77-9023B43 Id No: 77-9023B43
 Can we afford aquaculture? . Industries.
 Conklin, D E
 Prof Nutr 8 (3): 3-7. Summer 1976
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 Search: 19760000 Doc Type: ARTICLE
 Source: OTHER US Cat Code: 1030
 Descriptors: United States

1315913 Id No: 77-9910800 Id No: 72-9122453
 An economic evaluation of aquaculture in Ontario
 Lerner, A
 Can J Agric Econ 25(1): 74-79 Feb 1977
 281.8 C16
 Search: 19770200 Doc Type: ARTICLE Location: AGE
 Cat Code: 1015
 Descriptors: Fisheries; Hatchery; Equipment; Labor
 Requirements; Feeding; Costs; Marketing; Consumption

1235744 Id No: 77-9035319 Id No: 74-9081588
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 Poole, H A
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SH95.A1P7
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 Conklin, D E
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 Cat Code: 1030

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 Shang, Y C
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 SH22.A107 Id No: 77-9910879
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 Smith, F J
 Oregon State University, Extension Service
 Sea Grant S G Oregon State Univ Mar Adv Program
 34, 8 p
 SH1.A6
 Search: 19730600
 Doc Type: ARTICLE
 Cat Code: 1030
 Descriptors: Taiwan

SH22.A107
 Search: 19761100 Doc Type: ARTICLE Location: AGE
 Cat Code: 1015
 Descriptors: Marine Industry; Business Management; Costs And
 Returns; Accounting; Resource Allocation

1287737
S19.A32 Id No: 77-9081696
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Tripathi, S D
Agric Agroind J 9 (12): 31-32. Dec 1976
Search: 19761200
Doc Type: ARTICLE
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Descriptors: India

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Cat Code: 1510
Descriptors: India

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SH21.15
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Source: EXP STN Doc Type: MONOGRAPH, BIB
Cat Code: 1030; 2505
Descriptors: Alabama

1051793
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1360151
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Search: 19760500
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Cat Code: 2005
Descriptors: Alabama

1255158
157.8 R29 No.260562 Id No: 77-9682951 Book Cat: 770072 3
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Aquaculture Nutrition, Oct. 14-15, 1975, Lewes/Rehoboth, Del.
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Newark, Del.: College of Marine Studies, University of
Delaware, v.ii. 323 p. : ill. ; 23 cm. -- 1976.
157.8 R29 No.260562
77007213
Note: Sponsored by the Sea Grant College Program. University
of Delaware in cooperation with the U.S./Japan Aquaculture
Panel. Includes bibliographies and indexes.
Search: 19760000
Source: OTHER US Doc Type: MONOGRAPH
Cat Code: 2005
Descriptors: Aquaculture; Congresses.; Fishes; Feeding And
Feeds; Congresses.

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389.8 V89 Id No: 72-9038192
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Fomichenko, E I
Vop Pitn 30 (5): 66-68. Ref. Eng. sum. Sept/Oct 1971
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Search: 19710000
Doc Type: ARTICLE
Cat Code: 2030

628959
S544.3.H3H3 Id No: 72-9102690
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Ball, J L
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Search: 19720700
Source: EXT Doc Type: ARTICLE
Cat Code: 2035

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S544.3.H3H3 Id No: 72-9102691
Nutrition problems in aquaculture. -Aquatic animals.
Bardach, J E
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Cat Code: 2035

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S295.M3 Id No: 76-9121050
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Sivalingam, P M; Rajagopalan, K
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S295.M3
Search: 19750800
Doc Type: ARTICLE
Cat Code: 2005
Descriptors: Malaysia

1224165
SH21.15 Id No: 77-9025072
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628961 Alabama, Agricultural Experiment Station
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Cordover, R D
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Search: 19720700
Source: EXT Doc Type: ARTICLE
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1228081 S441.R26 Id No: 77-9029023
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McLarney, W D
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1240473 157.8 R29 Id No: 77-9040150
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MacGrath, W S Jr
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157.8 R29
Search: 19760000
Source: OTHER US Doc Type: ARTICLE
Cat Code: 2035

1286542 SH21.15 Id No: 77-9080497
The International Center for Aquaculture. Annual report for fiscal year 1976
Sheil, E W
Alabama. Agricultural Experiment Station; International Center for Aquaculture
Auburn 15 p. Ref. 1976 (pub. 1977)
SH21.15
Search: 19770500
Source: EXP STN Doc Type: MONOGRAP
Cat Code: 2505
Descriptors: Alabama

1282865 389.78 W52 Id No: 77-9076795
Hydroponically grown forage is still with us .Grass machines.
Anim Nutr Health 32 (2): 18-19. Mar 1977
389.78 W52
Search: 19770300
Source: OTHER US Doc Type: ARTICLE
Cat Code: 2035

ANIMAL SCIENCE

1276747 105.2 OR3 Id No: 77-9072050
Produktiviteit van en produktiemogelijkheden in het aquatisch milieu; Productivity of production potential in aquaculture
Huisman, E A
Landbouwkld Tijdschr 88 (7): 238-242. Ref. July 1976
105.2 OR3
Language: DUT
Search: 19760700
Doc Type: ARTICLE
Cat Code: 2505

1292453 SH1.U5 Id No: 77-9084614
Aquacultural economics bibliography
Vondruska, J
NOAA Tech Rep NMFS SSRF U S Natl Mar Fisheries Serv 703.
123 p. Oct 1976
SH1.U5
Search: 19761000
Source: OTHER US Doc Type: ARTICLE, BIB
Cat Code: 2505

1209421 100 AL1H Id No: 77-9011708
Reducing uses of energy in aquaculture
McCoy, E W; Boutwell, J L; Jolly, C M

PLANT SCIENCE

SH21.15 Id No: 73-9392935 Book Cat: 73012265
 Annual report
 1st - 1970/71 -
 International Center for Aquaculture; Alabama, Agricultural Experiment Station
 Auburn, Ala.. Auburn University 1971-
 SH21.15
 73012265
 Note: Project AID/csd 2780
 Search: 19710000 Doc Type: SERIES
 Source: EXP STN Cat Code: 2505
 Descriptors: Fish-culture

VETERINARY MEDICINE

958405 Id No: 75-9039506
 The challenge of aquaculture for veterinarians
 Miller, W R
 J Am Vet Med Assoc 166 (8): 790-791. Apr 15, 1975
 Search: 19750415 Doc Type: ARTICLE Cat Code: 3005

590878
 5590.85 Id No: 72-9064271
 Dispositif stérile pour cultures hydroponiques; Sterile apparatus for hydroponic cultures. -Roots.
 Garcia, J L; Raimbault, M; Mouraret, M
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 Language: FRE
 Search: 19710000 Doc Type: ARTICLE Cat Code: 4005

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 Utility of hydroponic cutting technique for chromosome number and morphology studies in *Arachis*. Peanuts. Simpson, C E; Davis, K S
 J APREA (Am Peanut Res Educ Assoc Inc) 7 (1): 1-3. Sept 1975
 SB320.A4
 Search: 19750900 Source: OTHER US Doc Type: ARTICLE Cat Code: 4020

FORESTRY

931786
 99-9 C324 Id No: 75-9014719
 Zkusenost s hydroponickym pestovanim semenacku lesnicki drevin: Experience with hydroponic growing of forest tree seedlings Pospisil, J; Koutnik, V
 Lesnickvi 20 (7): 665-686. Ref. Eng. sum. July 1974
 99.9 C334 Language: CZE
 Search: 19740700 Doc Type: ARTICLE Cat Code: 3515

778283
 442.8 N22 Id No: 73-9225444
 Anatomo-morphological features of the roots of cucumbers and tomatoes under conditions of hydroponics Zelenina, N V
 Nauch Dokl Vyssh Shk. Biol Nauk 7: 73-77. Ref. 1973
 442.8 N22 Language: RUS
 Search: 19730000 Doc Type: ARTICLE Cat Code: 4020

569047
 1.962 C5T71 Id No: 72-9042338
 Soil less container system developed for growing conifer seedlings White, D P; Schneider, G
 Tree Planters' Notes 23 (1): 1-4. Feb 1972
 1.962 C5T71 Search: 19720200
 Source: USDA Doc Type: ARTICLE Cat Code: 3515

1180423 Id No: 76-9110242
 20.5 P872 Dziedziczenie systemow korzeniowych jeczmienia. II.
 Wskazniki rozmiarow systemu korzeniowego odmian Gryf, Lubuski i Skrzeszowicki, rosnacych w kulturach wodnych; Inheritance of barley root systems. II. Indices of roots dimension of cultivars Gryf, Lubuski and Skrzeszowicki grown in water culture
 Krzywanski, Z; Wojcik-Wojtkowiak, D; Borys, M W; Stroinski, A ; Wojciechowski, J
 Pr Poznan Tow Przyj Nauk Roln Lesn Eng. sum. 1976
 20.5 P872 Language: POL
 Search: 19760000 Doc Type: ARTICLE
 Cat Code: 4025; 4035

PLANT PHYSIOLOGY AND BIOCHEMISTRY - GENERAL

693540 24 EA74 Id No: 73-9151458
 Observations on the water culture technique for studying the effects of copper concentrations on Arabica coffee seedlings
 Aduayi, E A
 East Afr Agr Forest J 38 (1): 62-69. Ref. July 1972
 24 EA74 Search: 19720700
 Doc Type: ARTICLE
 Cat Code: 4030

795389 S8126.5.15 1973 Id No: 74-9004223
 Risultati di un quadriennio di sperimentazione sul miglioramento genetico delle piante per la coltura idroponica e prospettive future; Results of a four years experimentation on the genetic improvement of plants for hydroponic culture and outlook for the future
 Panella, A
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 Sassari, 1973. Proceedings 3d: 175-185. Eng. sum. 1973
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 Search: 19730000 Doc Type: ARTICLE
 Cat Code: 4025

597456 20 ER4 Id No: 72-9070894
 Dynamics of the contents of plastid pigments in several plants grown hydroponically and in soil
 Bazhanova, N V; Gevorkian, A G
 Akad Nauk Arm Ssr Izv Biol Nauk 24 (2): 112-113. Feb 1971
 20 ER4 Language: RUS
 Search: 19710200 Doc Type: ARTICLE
 Cat Code: 4030

1213854 QH431.A1S25 Id No: 77-9016256
 Wyuzit hydroponics ve sliechteni jarniho jecmene: The use of hydroponics in spring barley breeding
 Ruzicka, F Genet Slechteni 11 (3): 255-261. Eng. sum. June 1975
 QH431.A1S25 Language: CZE
 Search: 19750600 Doc Type: ARTICLE
 Cat Code: 4025

993341 275-29 Id13Idc NO.259 Id No: 75-9657439
 Hydroponic culture of plants
 Boe, A A Moscow 2 P. illus. 1974
 275-29 Id13Idc NO.259 75008117
 Series: Idaho University Cooperative Extension Service.
 Idaho current information series, no. 259 Search: 19740000
 Source: EXT Doc Type: MONOGRAPH Cat Code: 4030

1180422 20.5 P872 Id No: 76-9110241
 Dziedziczenie systemow korzeniowych jeczmienia. I- wplyw poziomu potasu i fosforu na wzrost jeczmienia
 I-wplyw cv.

Note: Title page in Armenian; and table of contents also in Armenian and English. Includes bibliographies.

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OK339.C95F6 Id No: 73-9144262 Growth rate and development of the root/shoot ratio in reed swamp macrophytes grown in winter hydroponic cultures Dykyjova, D; Ondok, P J; Hradecka, D Folia Geobot & Phytotaxon 7 (3): 259-268. 1972

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Dykyjova, D; Veber, K; Priaban, K	Folia Geobot & Pnytotaxon 6 (3): 233-254. Ref.	1971	Jung, J	In Linser, Hans, ed.	Dungung 1 (2): 1127-1152. Ref.	Handbuch der Pflanzennahrung und Dungung 1 (2): 1127-1152. Ref. 1972
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972018	505 P21 (3)	Id No: 75-9027793	Action du chlorure de sodium sur la localisation du soufre marque par 35S chez un halophyte, Plantago maritima (L.), en culture hydroponique; Sodium chloride effect on labelled sulphur (35S) localization in a halophytic plant, Plantago maritima L., grown in hydroponic culture	695150	20 ER4	Id No: 73-9153185 On the causes of increased viability of hydroponic plants. .Soilles culture.
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689286	450 AC89	Id No: 73-9146950	Opracowanie opytmalnych dawek i form makro i mikro elementow pozywki hydroponicznej w metodzie wroclawskiej. Przy rownociensnym dzialaniu humanianow; Elaboration of optimal doses and forms of macro- and microelements and humates in the nutrient used in hydroponic culture "Wroclaw".	791150	389.9 AS74A	Id No: 74-9001415 Hydroponics in the 70's
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 Search: 19731100 Doc Type: ARTICLE
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 An automatic dosage device for hydroponics
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 1974
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 Search: 19740400 Doc Type: ARTICLE
 Cat Code: 4030

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Search: 19710000
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 Language: FRE
 Search: 19760000
 Doc Type: ARTICLE
 Cat Code: 4035

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 64.9 C33 Id No: 72-9088018
 Stanoveni vodneno zivneho roztoku pro pestovani jarniho jecmeni ve vodni kulture do plne zralosti; The determination of a suitable nutrient solution for the cultivation of spring barley in a water culture up to full ripeness
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 Language: CZE
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two or three kinds of ammonium salts at a high concentration
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Admission of phosphorus of condensed phosphates into barley
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PHYSIOLOGY AND BIOCHEMISTRY OF HORTICULTURAL CROPS

1198181
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The effects of nutrient interrelationships on tomatoes in hydroponic culture
Attar, S
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Doc Type: MONOGRAPH
Cat Code: 4040
Descriptors: Hydroponics; Tomato Breeding

649050
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Descriptors: Horticulture - CROPS - CULTURE
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Descriptors: Greenhouse Cultivation; Hydroponics; Vegetable Gardening; U.S.S.R.

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